



# Elisabetta Brocchieri

## Personal Informations

*Date, place of  
birth* 20/11/1995, Rome, Italy

*Professional  
address* • Université d'Évry Val d'Essonne, Laboratoire de Mathématiques et Modélisation d'Évry (UMR 8071), Bâtiment I.B.G.B.I., 23 Bd. de France, 91037 Évry, France, Office: 414.

• Dipartimento di Matematica G. Castelnuovo, Sapienza Università di Roma, piazzale Aldo Moro 5, 00185 Rome, Italy.

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number* +33(0) 783710697, +39 3472950249

## Education

***Bachelor's degree in Mathematics*** : October 2014 – July 2017

Sapienza, University of Rome

**Thesis:** Vlasov's equation

**Advisor:** Paolo Buttà, Sapienza, University of Rome

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***Master in Mathematics:*** October 2017 – October 2019

Sapienza, University of Rome

**Thesis:** Energy and duality methods applied to triangular cross-diffusion systems

**Advisors:** Eugenio Montefusco, Sapienza, University of Rome

Lucilla Corrias, Université d'Évry-Val-d'Essonne

***Phd in Applied Mathematics*** : November 2019 – present

Co-tutorship agreement for doctoral thesis

**Project:** Mathematical analysis of reaction-diffusion and cross-diffusion systems

**Advisors:** Lucilla Corrias, University of Évry-Val-d'Essonne

Laurent Desvillettes, University of Paris Diderot

Eugenio Montefusco, Sapienza, University of Rome

Experience | **Erasmus grant:** September 2018 – June 2019  
**Host university :** Paris Sud University, Orsay, France

Conferences  
and workshops

**Workshop:** PDE and Probability for Biology  
CIRM, Marseille, 3-7/02/2020.

**Conference:** Mathematical Models in Evolutionary Biology  
CIRM, Marseille, 10-14/02/2020.

**Workshop:** Recent Advances in Degenerate Parabolic Systems with Applications to Mathematical Biology  
Paris, 19-21/02/2020.

**Conference:** Kinetic theory, Cambridge kinetic group (contributed talk)  
02/12/2020.

**Conference:** PhD student seminar (contributed talk)  
Paris-Sud University, Orsay, 09/02/2021.

**Conference:** Phd student seminar (contributed talk)  
Le Havre, 09/06/2021.

**Workshop:** Online Hausdorff School "Diffusive Systems: Pattern Formation, Bifurcations, and Biological Applications"  
12-15/04/2021.

**Conference:** 10th French biennial of applied and industrial maths (contributed poster)  
La Grande-Motte, 21-25/06/2021.

**Conference:** Online Applied Analysis Seminar (contributed talk)  
University of Graz, 15/06/2021.

**Conference:** Non-Local Models Arising from Biology  
CIRM, Marseille, 11-15/10/2021.

Teaching

**Undergraduate, University of Évry-Val-d'Essonne:**

**1st year in Math/Info:** Tutor on 'Mathematical language'  
September 2020 – January 2021

**2nd year Eco-Management:** Tutor on 'Mathematical analysis 3'  
September 2020 – January 2021

**2nd year Eco-Management:** Tutor on 'Mathematical analysis 3'  
September 2021 – January 2022

Publications

[1] E. Brocchieri, L. Corrias, H. Dietert, Y.-J. Kim. *Evolution of dietary diversity and a starvation driven cross-diffusion system as its singular limit.* J. Math. Biol. 2021, <https://doi.org/10.1007/s00285-021-01679-y>

Languages | Italian, mother tongue  
French, C1 level  
English, fluent

*Certificated by OLS/Erasmus +*

Computer skills | C ++  
Matlab